

Global Leased Line Service

from NTT Communications



Global ICT Partner
Innovative. Reliable. Seamless.

Predictable, low latency global networking with the highest quality

A global managed bandwidth solution from NTT Communications (NTT Com) which enables global customers to integrate converged global networks.

NTT COM LEASED LINE PREMIUM SERVICE

The NTT Com Leased Line Premium service is a Layer 1 private managed data backbone, engineered to provide the highest level of quality and service for enterprise customers that rely on highly secure, high performance, predictable network solutions. The NTT Com Leased Line network backbone has access to the most diverse international cable path routes available, to allow secure and stable connectivity among Asia, the Americas, Europe and other regions.

NTT COM ETHERNET LEASED LINE SERVICE

Emerging Ethernet technology can help customers reduce the complexity of their premise equipment management and reduce cost globally. NTT Com has launched an Ethernet over SDH-type Leased Line option called Ethernet Leased Line (ELL) Service. This service offers customers the flexibility of Ethernet as an edge delivery method, while retaining high availability and the ability for customers to choose specific and diverse cable paths.

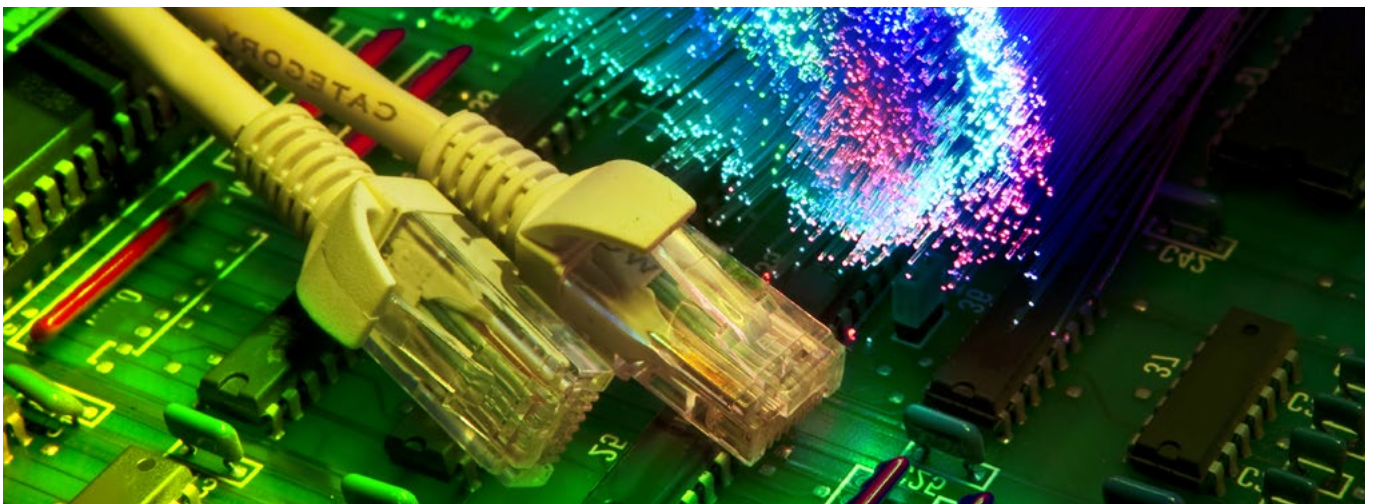
LEASED LINE BENEFITS

- Security of a Private Network
- Predictable Performance
- Non-intrusive Layer 1 Service
- Protection: Automatic Failover on protected paths and node diversity options
- Ideally suited for Point to Point Network Topologies
- Ease of installation , operation and maintenance
- Protocol independent, so can be used for Voice – Data – Video and Real-time Transmission
- STM Bandwidths DS3 (45Mb) STM1 (155Mb) STM4 (600Mb) STM16 (2.4Gb)

ETHERNET LEASED LINE BENEFITS

Providing all the benefits of the Leased Line Service with the addition of:

- Lower cost for CPE Equipment
- Ease of management as many customers are already familiar with this technology due to their existing LAN Deployment.
- Bandwidth speeds available from 50Mb to 10G



A flexible network solution with access to extensive global coverage

NTT Com can deliver high quality end-to-end management of your connectivity needs.

WHY A MANAGED (PREMIUM) SERVICE

Compared with the traditional method of providing international services achieved by interconnecting and managing multiple carriers, NTT's managed (premium) services allows greater control of service quality and management by being your single partner. NTT Com provides the service on an end-to-end basis, with full control over design, implementation, monitoring, and maintenance. With a managed service, NTT Com offers the superior quality that is the company's tradition and core competency.

NTT Com has built, maintains and provides seamless networks to over 45 countries, globally. NTT Com keeps customers' global activities more competitive by offering complete solutions that include everything from network management to IT outsourcing. With point-to-point dedicated bandwidth to allow constant high throughput and high-quality wide bandwidth network, offering an end-to-end managed service, it makes NTT Com the optimal choice for mission-critical data transmission. NTT Com's customers have already taken advantage of the huge opportunities offered by our global connectivity, data center footprint and full suite of ICT solutions by improving commercial efficiency and operational support, allowing them to focus on their core business activity.

EXTENSIVE CABLE CAPACITY AND ROUTES

NTT Com offers a broad spectrum of cable path options, including an incomparable availability of capacity between the Americas and Asia. NTT Com is constantly expanding its portfolio of submarine and terrestrial cable investments, offering more alternatives and enhanced reliability for customers.

Low-latency is critical for certain industries. Media agencies, need stable, reliable and robust infrastructures to ensure they are always available. After all, most of the work they do is online. The financial market is another industry which relies heavily on business critical infrastructures to allow them to compete in low-latency trading executions, giving fast access to market data.

NTT's Asia Submarine Express is an ultra-low-latency network which connects the 3 key Asian hubs in Hong Kong, Singapore and Japan. It provides direct access in to NTT Com owned close proximity data centers linking our Financial customers straight to these markets and enhancing their competitive edge. By minimizing the latency between various financial centres, and direct connectivity in to Europe and US, this network is strengthening financial businesses worldwide.



NTT Com's data centers and worldwide networks support ultra-low-latency trading in financial markets worldwide. The Asian triangle connecting Tokyo, Hong Kong and Singapore also links with North American and European markets.



Asia Submarine-cable Express (ASE), an ultra-low latency undersea cable connecting major cities in Asia was launched in August 2012. ASE enhances NTT Com's highly reliable global network services by boosting the capacity and strengthening the redundancy of its Asian cable networks. ASE, which eventually will incorporate 100 Gbps optical technology, launched with a total carrying capacity exceeding 15 terabits per second (Tbps), a total length of about 7,800 km and special designs to withstand earthquake and typhoon damage. NTT Com is the major investor in the cable system, has landing points in Japan, the Philippines, Singapore, Malaysia and Hong Kong.

COMPLEX DIVERSITY DESIGN

NTT Com has designed the Leased Line service for the highest availability and lowest latency available, and can offer many diverse options through protected cable path architectures. NTT Com's engineers work with our customers to design redundant architectures based on the multitude of bandwidth and cable route options available.

WHEN TO USE ETHERNET LEASED LINE

The major factors that drive customers to deploy Ethernet Leased Line technologies aim to solve the need for the High Bandwidth secure, predictable reliable communication for points to Network Topologies. Typically there may be technical compliance requirements or governance that prevents the customer from using Switched Network services such as MPLS. With Leased Line Services being based on mature well established technologies, many organizations will already have the IT skills for deployment and management of such services.

With Leased Line Services, Ethernet or STM Local Access Option; the Roundtrip Delay (RTD) is fixed and will not change unless there is a fault on the Route and this has to be rerouted to a backup route. Having a fixed RTD is critical to many organizations, from Financial and Trading System to Media and Broadcasting all require the assurance of a fixed RTD with Service reliability.

PREMISE EQUIPMENT COST

Large bandwidth Leased Lines typically require specialized hardware on the customer premises to accommodate the service. With Ethernet-based services, customers can reduce cost significantly due to hardware cost reduction associated with Ethernet Switch Devices and Interface module cost.

INTERMEDIATE BANDWIDTH

Traditional Leased Line services offer limited choices of circuit speed availability. Ethernet Leased Line services allows NTT Communications to offer many more Intermediate speed options and ultimately give customers more flexibility.

EASE OF MANAGEMENT

NTT Com provides a complete end to end 24x7x 365 managed services including: Local access delivery to the customer end locations. NTT Com will use one of our approved and trusted local access partners to deliver the service from our nodes directly to the end customer locations.

NTT Com will be your Single Point Of Contact for the end-end service.

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